

## CERTIFICATE OF ANALYSIS

**Certificate No.: 2107A**

**Customer:** Ing Stefan Cachia

**Sample Description:** LN: WW15-2762 – GSTP GRIT  
LN: WW15-2763 – GSTP SCREEN  
LN: WW15-2764 – GSTP SLUDGE

**Date of Sample Submission:**  
25/06/15

**Date of commencement of analysis:**  
25/06/15

PARAMETER	UNITS	METHODOLOGY	RESULTS		
			L.N. WW15/2762	L.N. WW15/2763	L.N. WW15/2764
CHEMICAL ANALYSIS					
Liquid to Solid Ratio	2L/Kg				
Conductivity	μS cm <sup>-1</sup>	MSA EN 12457-1:2002	1400	2550	6020
pH		MSA EN 12457-1:2002	7.1	7.05	7.8
TDS	mg/kg	MSA EN 12457-1:2002	14100	10900	11900
Sulfates	mg/kg	MSA EN 12457-1:2002	1230	875	2240
TOC	mg/kg	MSA EN 12457-1:2002	2830	9320	807
Fluorides	mg/kg	MSA EN 12457-1:2002	0.656	<0.1	3.493
Chlorides	mg/kg	MSA EN 12457-1:2002	1970	928	3110
Arsenic	mg/kg	MSA EN 12457-1:2002	0.018	0.043	0.092
Barium	mg/kg	MSA EN 12457-1:2002	0.720	0.452	1.55
Cadmium	mg/kg	MSA EN 12457-1:2002	<0.001	0.013	0.008
Chromium	mg/kg	MSA EN 12457-1:2002	0.226	0.216	0.395

Analysis checked by:  
Diandra Caruana B.Sc.(Hons)  
Scientist

Analysis approved by:  
David Spiteri B.Sc. (Hons) M.Sc.  
Senior Professional

This certificate shall not be reproduced without the written approval of the WSC Laboratory.  
This certificate must not be used for the purpose of any actual or contemplated legal or arbitration proceedings without the prior written consent of the WSC laboratory.

	<b>Water Services Corporation Laboratory</b> Water Services Corporation, Qormi Road Luqa LQA 9043 Tel: 00356 22443119 Fax: 00356 22443125
--	---

## CERTIFICATE OF ANALYSIS

**Certificate No.: 2107B**

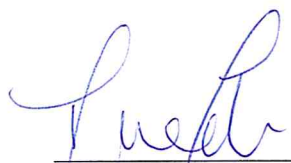
**Customer:**        **Ing Stefan Cachia**


**Sample Description:**    **LN: WW15-2762 – GSTP GRIT**  
                                      **LN: WW15-2763 – GSTP SCREEN**  
                                      **LN: WW15-2764 – GSTP SLUDGE**

**Date of Sample Submission:**  
    25/06/15

**Date of commencement of analysis:**  
    25/06/15

PARAMETER	UNITS	METHODOLOGY	RESULTS		
			L.N. WW15/2762	L.N. WW15/2763	L.N. WW15/2764
CHEMICAL ANALYSIS					
Copper	mg/kg	MSA EN 12457-1:2002	0.552	0.800	5.16
Molybdenum	mg/kg	MSA EN 12457-1:2002	0.035	0.080	0.408
Nickel	mg/kg	MSA EN 12457-1:2002	0.115	0.149	0.800
Lead	mg/kg	MSA EN 12457-1:2002	0.120	0.082	0.475
Antimony	mg/kg	MSA EN 12457-1:2002	0.007	0.006	0.025
Selenium	mg/kg	MSA EN 12457-1:2002	0.012	0.019	0.034
Zinc	mg/kg	MSA EN 12457-1:2002	6.39	4.30	9.60
Mercury	mg/kg	MSA EN 12457-1:2002	0.016	0.011	<0.0001

  
 Analysis checked by:  
 Diandra Caruana B.Sc.(Hons)  
 Scientist

  
 Analysis approved by:  
 David Spiteri B.Sc. (Hons) M.Sc.  
 Senior Professional

This certificate shall not be reproduced without the written approval of the WSC Laboratory.  
 This certificate must not be used for the purpose of any actual or contemplated legal or arbitration proceedings without the prior written consent of the WSC laboratory.

	<b>Water Services Corporation Laboratory</b> Water Services Corporation, Qormi Road Luqa LQA 9043 Tel: 00356 22443119 Fax: 00356 22443125
---	---

## CERTIFICATE OF ANALYSIS

**Certificate No.: 2107C**

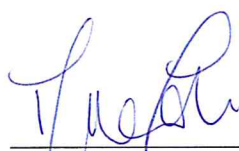
**Customer:**      **Ing Stefan Cachia**


**Sample Description:**    **LN: WW15-2747 – SSTP GRIT**  
                                      **LN: WW15-2748 – SSTP SCREEN**  
                                      **LN: WW15-2749 – SSTP SLUDGE**

**Date of Sample Submission:**  
25/06/15

**Date of commencement of analysis:**  
25/06/15

PARAMETER	UNITS	METHODOLOGY	RESULTS		
			L.N. WW15/2747	L.N. WW15/2748	L.N. WW15/2749
CHEMICAL ANALYSIS					
Liquid to Solid Ratio	2L/Kg				
Conductivity	µS cm <sup>-1</sup>	MSA EN 12457-1:2002	3540	5360	7370
pH		MSA EN 12457-1:2002	7.39	6.47	7.96
TDS	mg/kg	MSA EN 12457-1:2002	41800	20700	21600
Sulfates	mg/kg	MSA EN 12457-1:2002	27200	6310	6920
TOC	mg/kg	MSA EN 12457-1:2002	1950	6870	9890
Fluorides	mg/kg	MSA EN 12457-1:2002	4.12	<0.1	<0.1
Chlorides	mg/kg	MSA EN 12457-1:2002	9160	10000	6820
Arsenic	mg/kg	MSA EN 12457-1:2002	0.082	0.091	0.253
Barium	mg/kg	MSA EN 12457-1:2002	2.52	1.09	2.42
Cadmium	mg/kg	MSA EN 12457-1:2002	<0.001	<0.001	<0.001
Chromium	mg/kg	MSA EN 12457-1:2002	0.176	0.116	0.164

  
 Analysis checked by:  
 Diandra Caruana B.Sc.(Hons)  
 Scientist

  
 Analysis approved by:  
 David Spiteri B.Sc. (Hons) M.Sc.  
 Senior Professional

This certificate shall not be reproduced without the written approval of the WSC Laboratory.  
 This certificate must not be used for the purpose of any actual or contemplated legal or arbitration proceedings without the prior written consent of the WSC laboratory.

**Date of Issue of Certificate:** 29<sup>th</sup> July 2015

**No. 2107/ PG 3 of 8**



	<b>Water Services Corporation Laboratory</b> Water Services Corporation, Qormi Road Luqa LQA 9043 Tel: 00356 22443119 Fax: 00356 22443125
---	---

## CERTIFICATE OF ANALYSIS

**Certificate No.: 2107D**

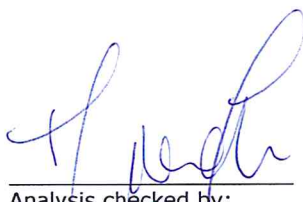
**Customer:** Ing Stefan Cachia

**Sample Description:** LN: WW15-2747 – SSTP GRIT  
 LN: WW15-2748 – SSTP SCREEN  
 LN: WW15-2749 – SSTP SLUDGE

**Date of Sample Submission:**  
 25/06/15

**Date of commencement of analysis:**  
 25/06/15

PARAMETER	UNITS	METHODOLOGY	RESULTS		
			L.N. WW15/2747	L.N. WW15/2748	L.N. WW15/2749
CHEMICAL ANALYSIS					
Copper	mg/kg	MSA EN 12457-1:2002	0.257	0.610	0.474
Molybdenum	mg/kg	MSA EN 12457-1:2002	0.776	0.048	0.576
Nickel	mg/kg	MSA EN 12457-1:2002	1.12	0.186	1.29
Lead	mg/kg	MSA EN 12457-1:2002	0.101	0.129	0.068
Antimony	mg/kg	MSA EN 12457-1:2002	0.031	<0.0001	0.019
Selenium	mg/kg	MSA EN 12457-1:2002	0.071	0.074	0.069
Zinc	mg/kg	MSA EN 12457-1:2002	5.36	4.03	4.50
Mercury	mg/kg	MSA EN 12457-1:2002	0.022	0.007	<0.0001

  
 Analysis checked by:  
 Diandra Caruana B.Sc.(Hons)  
 Scientist

  
 Analysis approved by:  
 David Spiteri B.Sc. (Hons) M.Sc.  
 Senior Professional

This certificate shall not be reproduced without the written approval of the WSC Laboratory.  
 This certificate must not be used for the purpose of any actual or contemplated legal or arbitration proceedings without the prior written consent of the WSC laboratory.

	<b>Water Services Corporation Laboratory</b> Water Services Corporation, Qormi Road Luqa LQA 9043 Tel: 00356 22443119 Fax: 00356 22443125
---	---

## CERTIFICATE OF ANALYSIS

**Certificate No.: 2107E**

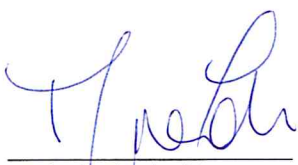
**Customer:** Ing Stefan Cachia


**Sample Description:** LN: WW15-2765 – NSTP GRIT  
 LN: WW15-2766 – NSTP SCREEN  
 LN: WW15-2767 – NSTP SLUDGE

**Date of Sample Submission:**  
 25/06/15

**Date of commencement of analysis:**  
 25/06/15

PARAMETER	UNITS	METHODOLOGY	RESULTS		
			L.N. WW15/2765	L.N. WW15/2766	L.N. WW15/2767
CHEMICAL ANALYSIS					
Liquid to Solid Ratio	2L/Kg				
Conductivity	µS cm <sup>-1</sup>	MSA EN 12457-1:2002	2650	3210	4280
pH		MSA EN 12457-1:2002	7.91	7.18	7.72
TDS	mg/kg	MSA EN 12457-1:2002	63300	25600	26800
Sulfates	mg/kg	MSA EN 12457-1:2002	21600	7450	5230
TOC	mg/kg	MSA EN 12457-1:2002	3250	13900	5460
Fluorides	mg/kg	MSA EN 12457-1:2002	<0.1	<0.1	<0.1
Chlorides	mg/kg	MSA EN 12457-1:2002	10700	3940	4830
Arsenic	mg/kg	MSA EN 12457-1:2002	0.345	0.148	0.062
Barium	mg/kg	MSA EN 12457-1:2002	0.318	0.343	1.28
Cadmium	mg/kg	MSA EN 12457-1:2002	<0.001	<0.001	<0.001
Chromium	mg/kg	MSA EN 12457-1:2002	0.141	0.109	0.178

  
 Analysis checked by:  
 Diandra Caruana B.Sc.(Hons)  
 Scientist

  
 Analysis approved by:  
 David Spiteri B.Sc. (Hons) M.Sc.  
 Senior Professional

This certificate shall not be reproduced without the written approval of the WSC Laboratory.  
 This certificate must not be used for the purpose of any actual or contemplated legal or arbitration proceedings without the prior written consent of the WSC laboratory.

**Date of Issue of Certificate:** 29<sup>th</sup> July 2015

**No. 2107/ PG 5 of 8**

	<b>Water Services Corporation Laboratory</b> Water Services Corporation, Qormi Road Luqa LQA 9043 Tel: 00356 22443119 Fax: 00356 22443125
---	---

## CERTIFICATE OF ANALYSIS

**Certificate No.: 2107F**


**Customer:** Ing Stefan Cachia


**Sample Description:** LN: WW15-2765 – NSTP GRIT  
 LN: WW15-2766 – NSTP SCREEN  
 LN: WW15-2767 – NSTP SLUDGE

**Date of Sample Submission:**  
 25/06/15

**Date of commencement of analysis:**  
 25/06/15

PARAMETER	UNITS	METHODOLOGY	RESULTS		
			L.N. WW15/2765	L.N. WW15/2766	L.N. WW15/2767
CHEMICAL ANALYSIS					
Copper	mg/kg	MSA EN 12457-1:2002	0.583	0.470	3.01
Molybdenum	mg/kg	MSA EN 12457-1:2002	0.125	0.049	0.111
Nickel	mg/kg	MSA EN 12457-1:2002	0.360	0.130	0.298
Lead	mg/kg	MSA EN 12457-1:2002	0.083	0.141	0.058
Antimony	mg/kg	MSA EN 12457-1:2002	0.015	<0.0001	0.021
Selenium	mg/kg	MSA EN 12457-1:2002	0.049	0.043	0.056
Zinc	mg/kg	MSA EN 12457-1:2002	3.60	12.3	5.54
Mercury	mg/kg	MSA EN 12457-1:2002	0.011	0.012	0.033

  
 Analysis checked by:  
 Diandra Caruana B.Sc.(Hons)  
 Scientist

  
 Analysis approved by:  
 David Spiteri B.Sc. (Hons) M.Sc.  
 Senior Professional

This certificate shall not be reproduced without the written approval of the WSC Laboratory.  
 This certificate must not be used for the purpose of any actual or contemplated legal or arbitration proceedings without the prior written consent of the WSC laboratory.



 <p><b>WATER SERVICES</b> CORPORATION LABORATORY</p>	<p><b>Water Services Corporation Laboratory</b></p> <p>Water Services Corporation, Qormi Road Luqa LQA 9043 Tel: 00356 22443119 Fax: 00356 22443125</p>
--	---

## CERTIFICATE OF ANALYSIS

**Certificate No.: 2107G**

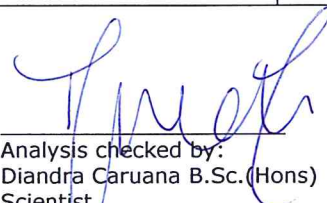
**Customer:**        **Ing Stefan Cachia**

**Sample Description:**    **LN: WW15-3052 – SASTP SCREN**  
                                      **LN: WW15-2766 – SASTP GRIT**


**Date of Sample Submission:**  
                                      25/06/15

**Date of commencement of analysis:**  
                                      25/06/15

PARAMETER	UNITS	METHODOLOGY	RESULTS	
			L.N. WW15/3052	L.N. WW15/3056
CHEMICAL ANALYSIS				
Liquid to Solid Ratio	2L/Kg			
Conductivity	μS cm <sup>-1</sup>	MSA EN 12457-1:2002	4300	4040
pH		MSA EN 12457-1:2002	7.25	7.31
TDS	mg/kg	MSA EN 12457-1:2002	62300	26600
Sulfates	mg/kg	MSA EN 12457-1:2002	5140	1650
TOC	mg/kg	MSA EN 12457-1:2002	10100	8280
Fluorides	mg/kg	MSA EN 12457-1:2002	7.652	1.584
Chlorides	mg/kg	MSA EN 12457-1:2002	25600	3220
Arsenic	mg/kg	MSA EN 12457-1:2002	0.140	0.049
Barium	mg/kg	MSA EN 12457-1:2002	1.60	0.947
Cadmium	mg/kg	MSA EN 12457-1:2002	<0.001	<0.001
Chromium	mg/kg	MSA EN 12457-1:2002	0.800	0.170



Analysis checked by:  
 Diandra Caruana B.Sc.(Hons)  
 Scientist



Analysis approved by:  
 David Spiteri B.Sc. (Hons) M.Sc.  
 Senior Professional

This certificate shall not be reproduced without the written approval of the WSC Laboratory.  
 This certificate must not be used for the purpose of any actual or contemplated legal or arbitration proceedings without the prior written consent of the WSC laboratory.

	<p><b>Water Services Corporation Laboratory</b></p> <p>Water Services Corporation, Qormi Road Luqa LQA 9043 Tel: 00356 22443119 Fax: 00356 22443125</p>
--	---

## CERTIFICATE OF ANALYSIS

**Certificate No.: 2107H**

**Customer:**      **Ing Stefan Cachia**

**Sample Description:**      **LN: WW15-3052 – SASTP SCREEN**  
**LN: WW15-3056 – SASTP GRIT**

**Date of Sample Submission:**  
25/06/15

**Date of commencement of analysis:**  
25/06/15

PARAMETER	UNITS	METHODOLOGY	RESULTS	
			L.N. WW15/3052	L.N. WW15/3056
CHEMICAL ANALYSIS				
Copper	mg/kg	MSA EN 12457-1:2002	2.35	2.28
Molybdenum	mg/kg	MSA EN 12457-1:2002	0.258	0.129
Nickel	mg/kg	MSA EN 12457-1:2002	0.675	0.756
Lead	mg/kg	MSA EN 12457-1:2002	0.303	0.254
Antinomy	mg/kg	MSA EN 12457-1:2002	0.022	0.015
Selenium	mg/kg	MSA EN 12457-1:2002	0.131	0.033
Zinc	mg/kg	MSA EN 12457-1:2002	11.9	11.6
Mercury	mg/kg	MSA EN 12457-1:2002	<0.0001	<0.0001



Analysis checked by:  
Diandra Caruana B.Sc.(Hons)  
Scientist



Analysis approved by:  
David Spiteri B.Sc. (Hons) M.Sc.  
Senior Professional

This certificate shall not be reproduced without the written approval of the WSC Laboratory.  
This certificate must not be used for the purpose of any actual or contemplated legal or arbitration proceedings without the prior written consent of the WSC laboratory.